

FEATURES

- Accurate positioning, enabling leak detection over a maximum distance of 150 m
- Multiple alarm functions with intuitive LED indicators displaying device status
- High-definition display for parameters, supporting RS485 communication and device linkage control
- Industrial-grade components with strong interference resistance
DIN rail installation, and easy wiring



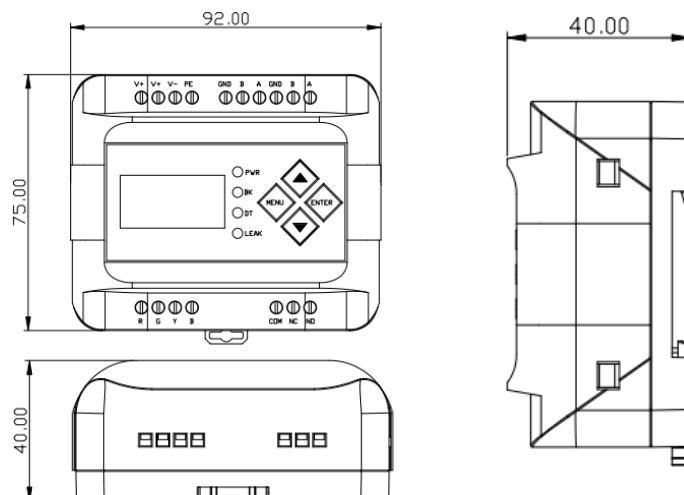
DESCRIPTION

LFL11 Leak Detection and Location Controller is designed for real-time monitoring of liquid leakage conditions. It supports a monitoring range up to 150 m. Once liquid leakage is detected, the controller immediately triggers an alarm, accurately locates the leakage point, displays the leak location on the screen, and activates the relay output. The controller provides relay contact outputs and an RS485 interface, enabling integration with various monitoring systems for remote alarms and remote device control. LFL11 is suitable for IDC rooms, data centers, smart buildings, libraries, museums, warehouses, and other applications.

SPECIFICATION

Sensing Performance	Detection Distance	150m
	Response Time	8–15 s
	Detection Accuracy	±0.5m + 1%
	Reading Resolution	0.1m
RS485 Interface	Communication Protocol	MODBUS-RTU
	Bus Address	1–255, Default 1
	Baud Rate	1200, 2400, 4800, 9600 (Default), 19200 bps
	Data Format	N,8,1
Relay Output	Contact Type	Dry Contact, 1 set, supports Normally Open (NO) and Normally Closed (NC)
	Rated Load	30VDC / 3A, 250VAC / 3A
Environmental Conditions	Operating Temperature	-15–50 °C
	Operating Humidity	0–95% RH (Non-condensing)
Power Supply Requirements	Supply Voltage	DC 9–30 V wide voltage supply, DC 12 V recommended.
	Power Consumption	<2W
EMC Protection	Electrostatic Discharge (ESD)	Contact discharge: ±4 kV; Air discharge: ±8 kV
	Surge	±1 kV
	EFT	±2 kV
Weight	129.86 g	

DIMENSION(mm)



ORDER REF NO

Code and Description							Remarks
LFL11	Leak Detection and Location Controller						Model
	B	ON/OFF+ RS485					
		X00	Without Leak Detection Cable				Leak Detection Cable Length
		X03	3 m				
		X05	5 m				
		X10	10 m				
		XDZ	Customized				
			J01	1 Pack of Fixing Adhesive Tapes			Quantity of Fixing Adhesive Tapes
			J00	Without Fixing Adhesive Tape			
				Y01	1pc Lead Cable Included		Quantity of Lead Cables
				Y00	Without Lead Cable		
					Z01	1pc Termination End Included	Quantity of Termination Ends
					Z00	Without Termination End	
LFL11	B	X10	J01	Y01	Z01	Model Selection Example	